In the claims:

1. (Currently amended) In an image system, a method for controlling a relative movement between a substrate being exposed and a head of the image system, the method comprising:

moving the head relative to the substrate at a relatively fast speed while exposing a first portion of the substrate; and

moving the head relative to the substrate at a relatively slow speed while exposing a second portion of the substrate; and

providing an image to the head of the image system at a variable rate responsive to changes in the moving speeds;

wherein the exposing of the first and second portions of the substrate occur during a first pass.

- 2. (Original) The method of claim 1 further comprising: upon completion of the first pass, rotating the substrate relative to the head; and moving the head relative to the substrate while exposing a third portion of the substrate.
- 3. (Original) The method of claim 1 further comprising:

moving the head relative to the substrate at a speed between the relatively slow speed and the relatively fast speed while exposing a third portion of the substrate;

wherein the exposing of the first, second, and third portions of the substrate occur during a first pass.

4. (Original) The method of claim 1 wherein the movement moves a scan line for undertaking a scanning exposure of the substrate.

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- 5. (Original) The method of claim 4 wherein the image system is a digital photolithography system.
- 6. (Cancel) A method for performing digital photolithography on a substrate, the substrate having a first portion with a first design resolution and a second portion with a second design resolution, the method comprising:

scanning the first portion of the substrate at a first speed; and scanning the second portion of the substrate at a second speed different from the first; wherein both the first and second portions are scanned on a single pass.

7. (Original) The method of claim 6 wherein the step of scanning the first portion emprises: A method for performing digital photolithography on a substrate, the substrate having a first portion with a first design resolution and a second portion with a second design resolution, the method comprising:

scanning the first portion of the substrate at a first speed, comprising moving the substrate relative to the head at a third speed in a first direction; and moving the head relative to the substrate at a fourth speed in the first direction while scanning the first portion of the substrate, wherein the first speed equals the sum of the third and fourth speeds; and

scanning the second portion of the substrate at a second speed different from the first speed, comprising wherein the step of scanning the second portion comprises: moving the head relative to the substrate at a fifth speed in a second direction opposite to the first direction while scanning the second portion of the substrate, wherein the second speed equals the difference of the third and fifth speeds;

wherein both the first and second portions are scanned on a single pass.

- 8. (Original) The method of claim 7 wherein the fourth and fifth speeds are the same.
- 9. (Original) The method of claim 6 wherein the substrate has a third portion with the first design resolution, the method further comprising:

rotating the substrate relative to a pixel panel of the digital photolithography system; scanning the third portion of the substrate at the first speed on a separate pass.

- 10. (Original) The method of claim 9 wherein the first, second, and third portions are different portions of the substrate.
- 11. (Original) Software for controlling the movement of a first motor for moving an image producing device during exposure of a substrate, wherein the substrate includes a plurality of circuit components arranged in rows and at least one horizontal component between consecutive rows of the circuit components, the software comprising instructions for:

moving the image producing device at a first speed and in a first direction while exposing the at least one horizontal component; and

moving the image producing device at a second speed and in a second direction opposite from the first direction while exposing the plurality of circuit components;

wherein the substrate constantly moves at a third speed in the first direction during the exposing, and the third speed is greater than the second speed.

- 12. (Original) The software of claim 11 wherein the first speed equals the second speed and the first direction is perpendicular to the rows.
 - 13. (Original) The software of claim 11 wherein the first speed equals zero.

- 14. (Original) The software of claim 11 further comprising instructions for: providing digital data to the image producing device corresponding to the movement of the image producing device at the first and second speeds.
- 15. (Original) The software of claim 11 wherein the image producing device is a deformable mirror device (DMD).
- 16. (Currently Amended.) A digital photolithography system for exposing first and second portions of a substrate in a single pass, the system comprising:

a pixel panel;

means for moving the pixel panel relative to a substrate at a relatively fast speed <u>and</u> modifying the pixel panel at a relatively fast rate while exposing the first portion of the substrate; and

means for moving the pixel panel relative to the substrate at a relatively slow speed <u>and</u> modifying the pixel panel at a relatively slow rate while exposing the second portion of the substrate.

- 17. (Original) The digital photolithography system of claim 16 wherein the pixel panel is a deformable mirror device (DMD).
- 18. (Original) The digital photolithography system of claim 16 further comprising: means for supplying data to the pixel panel while the pixel panel is being moved relative to the substrate, wherein a rate at which the data is supplied corresponds to the speed at which the pixel panel is being moved relative to the substrate.